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| <223> Synthetic | |
| <400> 825 | |
| ccgtcacgcc tcctcctcat tgaatt | 26 |
| <210> 826 | |
| <211> 35 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 826 | |
| ccaaaagtcc agtgatgatt ttcaccaggc aagta | 35 |
| <210> 827 | |
| <211> 20 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 827 | |
| cagattggaa gcatccatct | 20 |
| <210> 828 | |
| <211> 19 | |
| <212> DNA | |
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| <220> | |
| <223> Synthetic | |
| <400> 828 | |
| gattcaatga ggaggaggc | 19 |
| <210> 829 | |

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<400> 829
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27

<210> 830

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<220>

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<221> misc_feature

<222> (3)..(3)

<223> The residue at this position is linked to a Z21 quenching group.

<400> 830
cactgcttcg tgg

13

<210> 831

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 831
ccgtcacgcc tccttcggag tttggt

26

<210> 832
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ccgtcacgcc tccttcggag tttggtt

27

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gggttggtgga gtgagtgttc aagta

25

<210> 834
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<220>
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<400> 834
aacccaaact ccgaaggcgg cgtg

24

<210> 835
<211> 28
<212> DNA
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<220>

<223> Synthetic

<400> 835

cggaagaagc agttggaggc gtgacggt

28

<210> 836

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

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<220>

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<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 836

caacgcttcc tccg

14

<210> 837

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 837

gccgtcacgc ctctttgggt ttgcttgtc

29

<210> 838

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 838

gccgtcacgc ctctttgggt ttgcttgt

28

<210> 839

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 839

tggagtgagt gttcaagtct tcggaga

27

<210> 840

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 840

gacaagcaaa cccaaagagg cg

22

<210> 841

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 841
cggaagaagc agttggaggc gtgacggc

28

<210> 842

<211> 14

<212> DNA

<213> Artificial Sequence

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<220>

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<400> 842
caacgcttcc tccg

14

<210> 843

<211> 27

<212> DNA

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<220>

<223> Synthetic

<400> 843
cctgtctcgc tgccttcgga gtttggg

27

<210> 844

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
 <400> 844
 cctgtctcgc tgccttcgga gtttgg 26

 <210> 845
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 <400> 845
 ggggttggtgga gtgagtgttc aagta 25

 <210> 846
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 <400> 846
 cccaaactcc gaaggcagcg 20

 <210> 847
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 <400> 847
 cggaggaagc agttggcagc gagacagg 28

 <210> 848

<211> 28
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 <220>
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 <222> (26)..(26)
 <223> The modified nucleotide at this position is amino-deoxy adenosine
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 cggaggaagc agttggcagc gagacagg 28

 <210> 849
 <211> 28
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 <221> modified_base
 <222> (22)..(22)
 <223> The modified nucleotide at this position is amino-deoxy adenosine
 .

 <400> 849
 cggaggaagc agttggcagc gagacagg 28

 <210> 850
 <211> 28
 <212> DNA

<213> Artificial Sequence

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<223> Synthetic

<220>

<221> modified_base

<222> (18)..(18)

<223> The modified nucleotide at this position is amino-deoxy adenosine
.

<400> 850

cggaggaagc agttggcagc gagacagg

28

<210> 851

<211> 28

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<220>

<221> modified_base

<222> (22)..(22)

<223> The modified nucleotide at this position is amino-deoxy adenosine
.

<220>

<221> modified_base

<222> (26)..(26)

<223> The modified nucleotide at this position is amino-deoxy adenosine
.

<400> 851

cggaggaagc agttggcagc gagacagg

28

<210> 852
 <211> 28
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 <221> modified_base
 <222> (18)..(18)
 <223> The modified nucleotide at this position is amino-deoxy adenosine
 .

 <220>
 <221> modified_base
 <222> (26)..(26)
 <223> The modified nucleotide at this position is amino-deoxy adenosine
 .

 <400> 852
 cggaggaagc agttggcagc gagacagg 28

 <210> 853
 <211> 28
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 <222> (18)..(18)
 <223> The modified nucleotide at this position is amino-deoxy adenosine
 .

<220>
<221> modified_base
<222> (22)..(22)
<223> The modified nucleotide at this position is amino-deoxy adenosine
.

<400> 853
cggaggaagc agttggcagc gagacagg 28

<210> 854
<211> 14
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<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3
dye.

<400> 854
caacgcttcc tccg 14

<210> 855
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 855
gccgtcacgc ctctgggaca cttgctgc 28

<210> 856
<211> 32
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 856
gccacaatgg tcttgaagat cacagcttct ta

32

<210> 857
<211> 21
<212> DNA
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<220>

<223> Synthetic

<400> 857
gcagcaagtg tcccagaggc g

21

<210> 858
<211> 28
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 858
cggaagaagc agttggaggc gtgacggc

28

<210> 859
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 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 859
 caacgcttcc tccg 14

<210> 860
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 <400> 860
 ccgtcacgcc tccttcggag tttggg 26

<210> 861
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<220>
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 <400> 861
 gggttgtgga gtgagtgttc aagta 25

<210> 862
 <211> 20
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 862

gggaaactcc gaaggaggcg

20

<210> 863

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 863

ccaggaagca agtggaggcg tgacggu

27

<210> 864

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (3)..(3)

<223> The residue at this position is linked to a Z21 quenching group.

<400> 864

cactgcttcg tgg

13

<210> 865

<211> 26

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 865
 cgccgagatc accttcggag ttgagg 26

 <210> 866
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 866
 gggttgtgga gtgagtgttc aagta 25

 <210> 867
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 867
 cccaaactcc gaaggtgatc 20

 <210> 868
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>

<223> Synthetic
 <400> 868
 cggaagaagc agttggtgat ctcggcgg 28

 <210> 869
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3
 dye.

 <400> 869
 caacgcttcc tccg 14

 <210> 870
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 870
 aacgaggcgc accttcggag tttggg 26

 <210> 871
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 871
 gggttgtgga gtgagtgttc aagta 25

 <210> 872
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 872
 cccaaactcc gaaggtgcg 19

 <210> 873
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 873
 cggaagaagc agttggtgcg cctcgtaa 29

 <210> 874
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature

<222> (4) .. (4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 874

caacgcttcc tccg

14

<210> 875

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 875

ccgtcacgcc tccttcggag tttgg

25

<210> 876

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 876

gggttggtgga gtgagtgttc aagta

25

<210> 877

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 877

gtttgcttgt ccaggtgg 18

<210> 878

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 878

ccaaactccg aaggaggcg 19

<210> 879

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 879

cggaagaagc agttggaggc gtagcggc 28

<210> 880

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

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| <400> 880 | |
| caacgcttcc tccg | 14 |
| <210> 881 | |
| <211> 24 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 881 | |
| ccgtcacgcc tccttcggag ttg | 24 |
| <210> 882 | |
| <211> 25 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 882 | |
| gggttggtgga gtgagtgttc aagta | 25 |
| <210> 883 | |
| <211> 19 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 883 | |
| gttttgcttg tccaggtgg | 19 |
| <210> 884 | |
| <211> 19 | |

<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 884
ccaaactccg aaggaggcg

19

<210> 885

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 885
cggaagaagc agttggaggc gtgacggt

28

<210> 886

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 886
caacgcttcc tccg

14

<210> 887

<211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 887
 ccgtcacgcc tccttcggag ttt 23

 <210> 888
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 888
 gggttgtgga gtgagtgttc aagta 25

 <210> 889
 <211> 19
 <212> DNA
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 <220>
 <223> Synthetic
 <400> 889
 gggtttgctt gtccaggtg 19

 <210> 890
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic

<400> 890

ccaaactccg aaggaggcg

19

<210> 891

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 891

cggaagaagc agttggaggc gtgacggt

28

<210> 892

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 892

caacgcttcc tccg

14

<210> 893

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 893

ccgtcacgcc tccggagttt ggg

23

<210> 894

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 894

gttgtggagt gagtgttcaa gtatta

26

<210> 895

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 895

tttgcttgtc caggtggtcc ag

22

<210> 896

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 896

cccaaactcc ggaggcg

17

<210> 897
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 897
 cggaagaagc agttggaggc gtgacggt

28

<210> 898
 <211> 14
 <212> DNA
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<220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 898
 caacgcttcc tccg

14

<210> 899
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

| | |
|---|----|
| <400> 899 cgccgagatc accggagttt ggg | 23 |
| <210> 900 | |
| <211> 26 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 900 gttgtggagt gagtgttcaa gtatta | 26 |
| <210> 901 | |
| <211> 22 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 901 tttgcttgtc caggtggtcc ag | 22 |
| <210> 902 | |
| <211> 17 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 902 ctagtggcct caaaccc | 17 |
| <210> 903 | |
| <211> 28 | |

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 903
 cggaagaagc agttggtgat ctcggcgg 28

 <210> 904
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3
 dye.

 <400> 904
 caacgcttcc tccg 14

 <210> 905
 <211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 905
 cgccgagatc acctttacat tttctatcgt 30

 <210> 906

<211> 30
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 906
 cgccgagatc acctttacat tttctatcgt 30

 <210> 907
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 907
 ccttccttat cctggatctt ggca 24

 <210> 908
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 908
 acgatagaaa atgtaaaggt gatc 24

 <210> 909
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
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 <400> 909
 cgcagtgaga atgaggtgat ctcggcggt 29

 <210> 910
 <211> 14
 <212> DNA
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 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z21 quenching group.

 <400> 910
 ctcttctcag tgcg 14

 <210> 911
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 911
 gtttcttttg tgtctccgca ctgcc 25

 <210> 912
 <211> 26
 <212> DNA
 <213> Artificial Sequence

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|-------|-------------------------------|----|
| <220> | | |
| <223> | Synthetic | |
| <400> | 912 | |
| | ccagcagtaa atgctccagt tgtaga | 26 |
| <210> | 913 | |
| <211> | 19 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic | |
| <400> | 913 | |
| | tagaacttga agtaggtgc | 19 |
| <210> | 914 | |
| <211> | 19 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic | |
| <400> | 914 | |
| | caaagaaaac acaggaggc | 19 |
| <210> | 915 | |
| <211> | 27 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic | |
| <400> | 915 | |
| | ccaggaagca agtggaggcg tgacggu | 27 |

<210> 916
<211> 13
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (3)..(3)

<223> The residue at this position is linked to a Z21 quenching group.

<400> 916
cactgcttcg tgg

13

<210> 917
<211> 26
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 917
aacgaggcgc acctgtgttt tctttg

26

<210> 918
<211> 26
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 918
ccagcagtaa atgctccagt tgtaga

26

<210> 919
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 919
tagaacttga agtaggtgc

19

<210> 920
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
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<400> 920
caaagaaaac acaggtgcg

19

<210> 921
<211> 27
<212> DNA
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<220>
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<400> 921
ccaggaagca agtgggtgcgc ctcgttt

27

<210> 922
<211> 13
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<220>
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 <222> (3)..(3)
 <223> The residue at this position is linked to a Z21 quenching group.

<400> 922
 cactgcttcg tgg 13

<210> 923
 <211> 24
 <212> DNA
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<220>
 <223> Synthetic
 <400> 923
 ccgtcacgcc tcctccagtt gtag 24

<210> 924
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 924
 aaaatcatct gtaaattccag cagtaaatga 30

<210> 925
 <211> 20
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 925
ctgtgttttc tttgtagaac

20

<210> 926

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 926
ctacaactgg aggaggc

17

<210> 927

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 927
ccaggaagca agtggaggcg tgacggu

27

<210> 928

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

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 <222> (3)..(3)
 <223> The residue at this position is linked to a Z21 quenching group.

<400> 928
 cactgcttcg tgg 13

<210> 929
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 929
 aacgaggcgc acctccagtt gtag 24

<210> 930
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 930
 aaaatcatct gtaaattccag cagtaaatga 30

<210> 931
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| <400> 931 | |
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| <210> 932 | |
| <211> 17 | |
| <212> DNA | |
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| <220> | |
| <223> Synthetic | |
| <400> 932 | |
| ctacaactgg aggtgcg | 17 |
| <210> 933 | |
| <211> 27 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 933 | |
| ccaggaagca agtggtgcgc ctcgttt | 27 |
| <210> 934 | |
| <211> 13 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <220> | |
| <221> misc_feature | |
| <222> (3)..(3) | |

<223> The residue at this position is linked to a Z21 quenching group.

<400> 934
cactgcttcg tgg 13

<210> 935

<211> 28

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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 935
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<210> 936

<211> 32

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<400> 936
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<210> 937

<211> 23

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<213> Artificial Sequence

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<223> Synthetic

<400> 937
gaacttgaag taggtgcact gtt 23

<210> 938
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<400> 938
tacaaagaaa acacaggagg cgt

23

<210> 939
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<400> 939
ccaggaagca agtggaggcg tgacggu

27

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<222> (3)..(3)

<223> The residue at this position is linked to a Z21 quenching group.

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cactgcttcg tgg

13

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aacgaggcgc acctgtgttt tctttgta

28

<210> 942
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<223> Synthetic

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gtaaatccag cagtaaattgc tccagttgta ga

32

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<400> 943
gaacttgaag taggtgcact gtt

23

<210> 944
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 <400> 944
 taaaaagaaa acacaggtgc g 21

 <210> 945
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 ccaggaagca agtggtgcgc ctcgttt 27

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 <210> 947
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<400> 947

ccgtcacgcc tcctccagtt gtaa

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ccgtcacgcc tcctccagtt gtat

24

<210> 949

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<223> Synthetic

<400> 949

ccgtcacgcc tcctccagtt gtac

24

<210> 950

<211> 30

<212> DNA

<213> Artificial Sequence

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| <210> 951 | |
| <211> 20 | |
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| <213> Artificial Sequence | |
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| <223> Synthetic | |
| <400> 951 ctgtgttttc tttgtagaac | 20 |
| <210> 952 | |
| <211> 17 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 952 ctacaactgg aggaggc | 17 |
| <210> 953 | |
| <211> 27 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 953 ccaggaagca agtggaggcg tgacggu | 27 |
| <210> 954 | |
| <211> 13 | |

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 <210> 955
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 <400> 955
 gccgtcacgc ctcccttctt gatg 24

 <210> 956
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 <210> 957

<211> 20
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 <400> 957
 catgcccaag aagggaggcg 20

 <210> 958
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 cggaagaagc agttggaggc gtgacggc 28

 <210> 959
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<220>

<223> Synthetic

<400> 960

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<211> 34

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 961

catcctggtg agtttgggat tcttgtaatt tata

34

<210> 962

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 962

gtaaatccag cagtaaagtc tccag

25

<210> 963

<211> 27

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<213> Artificial Sequence

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 <400> 963
 agatgatttt gaatggaatt agaggcg 27

<210> 964
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 <400> 964
 cggaagaagc agttggaggc gtgacggc 28

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 <223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 965
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<210> 966
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29

<210> 967

<211> 32

<212> DNA

<213> Artificial Sequence

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<400> 967
gtaaatccag cagtaaatgc tccagttgta ga

32

<210> 968

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23

<210> 969

<211> 23

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<213> Artificial Sequence

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<400> 969
gaacttgaag taggtgcact gtt 23

<210> 970

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<212> DNA

<213> Artificial Sequence

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<400> 970
gaacttgaag taggtgcact gtt 23

<210> 971

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<400> 971
gaacttgaag taggtgcact gtt 23

<210> 972

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tacaaagaaa acacaggtga tct 23

<210> 973

<211> 28

<212> DNA
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 cggaggaagc agttggtgat ctcggcgg 28

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 <223> Synthetic
 <400> 975
 aacgaggcgc acccttcttg ggcattg 26

 <210> 976

<211> 33
 <212> DNA
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 ttctagacac tgaagatggt tcagttctgt gga 33

 <210> 977
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 <223> Synthetic
 <400> 977
 catgcccaag aaggggtgcg 19

 <210> 978
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 <212> DNA
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 <400> 978
 cggaagaagc agttggtgcg cctcgtaa 29

 <210> 979
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caacgcttcc tccg 14

<210> 980
<211> 33
<212> DNA
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<220>
<223> Synthetic
<400> 980
aacgaggcgc actaattcca ttcaaaatca tct 33

<210> 981
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<212> DNA
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<223> Synthetic
<400> 981
catcctggtg agtttgggat tcttgtaatt tata 34

<210> 982
<211> 25
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 982

gtaaatccag cagtaaattgc tccag

25

<210> 983

<211> 26

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 983

agatgatttt gaatggaatt agtggt

26

<210> 984

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 984

cggaagaagc agttggtgcg cctcgtaa

29

<210> 985

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<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

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<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 985

caacgcttcc tccg

14

<210> 986

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<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 986

cctgtctcgc tgccagttgt gttcttggag

30

<210> 987

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<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 987

ccctgcagaa ggtttccttc ta

22

<210> 988

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 988
ccctgcagat ggtttccttc ta 22

<210> 989

<211> 22

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 989
ctccaagaac acaactggca gc 22

<210> 990

<211> 24

<212> DNA

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<400> 990
ctccaagaac acaactggca gcga 24

<210> 991

<211> 26

<212> DNA

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<400> 991
ctccaagaac acaactggca gcgaga 26

<210> 992

<211> 28

<212> DNA
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 <400> 992
 cggaggaagc agttggcagc gagacagg 28

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 <210> 995

<211> 26
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 aacgaggcgc accttgagg cagcaa 26

 <210> 996
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 <212> DNA
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 <400> 996
 aaggtttcct tctcagttgt gtta 24

 <210> 997
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 ctttgctgcc tccaaggtgc g 21

 <210> 998
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<220>
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 <400> 998
 cggaggaagc agttggtgcg cctcgtaa 29

 <210> 999
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 <400> 999
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 <210> 1000
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 <400> 1000
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 <212> DNA
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<220>
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 <400> 1001
 aaggtttcct tctcagttgt gttcta 26

 <210> 1002
 <211> 23
 <212> DNA
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 <220>
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 <400> 1002
 catctttgct gcctccagag acg 23

 <210> 1003
 <211> 29
 <212> DNA
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 <220>
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 <400> 1003
 gctactgaga tgaaggagac gtgactgta 29

 <210> 1004
 <211> 14
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<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1004

cttctctcag tagc

14

<210> 1005

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1005

aacgaggcgc accttggagg cagcaaag

28

<210> 1006

<211> 24

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 1006

aaggtttcct tctcagttgt gtta

24

<210> 1007

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1007
ctttgctgcc tccaaggtgc g 21

<210> 1008

<211> 29

<212> DNA

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<400> 1008
cggaggaagc agttggtgcg cctcgtaa 29

<210> 1009

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

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<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1009
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<210> 1010

<211> 32

<212> DNA

<213> Artificial Sequence

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 <210> 1011
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 <400> 1011
 gaattggcac tcaaattgtgt tgtcagaga 29

 <210> 1012
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 <212> DNA
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 <400> 1012
 actgttgtaa aactaaaggg ggtgatct 28

 <210> 1013
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 <223> Synthetic
 <400> 1013
 cggaggaagc gggttggtgat ctcggcg 27

 <210> 1014

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<220>

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<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1014
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14

<210> 1015
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<223> Synthetic

<400> 1015
tgccgcgcgag atcaccacctt tagttttaca acagt

35

<210> 1016
<211> 29
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<220>

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<400> 1016
gaattggcac tcaaattgtgt tgtcagaga

29

<210> 1017
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<400> 1017
actggttgtaa aactaaaggg ggtg

24

<210> 1018
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<220>
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actggttgtaa aactaaaggg ggtgat

26

<210> 1019
<211> 28
<212> DNA
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<400> 1019
actggttgtaa aactaaaggg ggtgatct

28

<210> 1020
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<400> 1020

actgttgtaa aactaaaggg ggtgatctcg

30

<210> 1021

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1021

cggaggaagc ggttggtgat ctcggcggca

30

<210> 1022

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<212> DNA

<213> Artificial Sequence

<220>

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<220>

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<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1022

caacgcttcc tccg

14

<210> 1023

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1023

gccgccgaga tcaccccttt agttttacaa cagt

34

<210> 1024

<211> 33

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 1024

ccgccgagat cacccttcta gttttacaac agt

33

<210> 1025

<211> 29

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 1025

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29

<210> 1026

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1026
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26

<210> 1027

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1027
cggaggaagc ggttggtgat ctcggcggca

30

<210> 1028

<211> 14

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<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3
dye.

<400> 1028
caacgcttcc tccg

14

<210> 1029

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<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
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 aacgaggcgc acccctttag ttttacaaca gt 32

 <210> 1030
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 <220>
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 <400> 1030
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 <210> 1031
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 <212> DNA
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 <220>
 <223> Synthetic
 <400> 1031
 agtaactggt gtaaaactaa aggggtgcg 29

 <210> 1032
 <211> 29
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 cggaggaagc agttggtgcg cctcgtaa 29

 <210> 1033

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<400> 1033
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<210> 1034
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 <400> 1034
 aacgaggcgc acccctttag ttttacaaca gt
 32

<210> 1035
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 <213> Artificial Sequence

<220>
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 <400> 1035
 gaattggcac tcaaattgtgt tgtcagaga
 29

<210> 1036
<211> 29
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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1036
agtaactgtt gtaaaactaa aggggtgcg

29

<210> 1037
<211> 29
<212> DNA
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<220>

<223> Synthetic

<400> 1037
cggaggaagc agttggtgcg cctcgtaa

29

<210> 1038
<211> 14
<212> DNA
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<220>

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<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1038

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<210> 1039

<211> 29

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<220>

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<400> 1039

ccgtcacgcc tcccctttag ttttacaac 29

<210> 1040

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<212> DNA

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<400> 1040

gaattggcac tcaaattgtgt tgtcagaga 29

<210> 1041

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1041

agttactctg atattgctga tgaaattctc ag 32

<210> 1042

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1042

gttgtaaaac taaaggggag gcg

23

<210> 1043

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1043

cggaagaagc agttggaggc gtgacggt

28

<210> 1044

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

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<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1044

caacgcttcc tccg

14

<210> 1045

<211> 29

<212> DNA
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 <220>
 <223> Synthetic
 <400> 1045
 cgccgagatc acccctttag ttttacaac 29

 <210> 1046
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1046
 gaattggcac tcaaattgtgt tgtcagaga 29

 <210> 1047
 <211> 32
 <212> DNA
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 <220>
 <223> Synthetic
 <400> 1047
 agttactctg atattgctga tgaaattctc ag 32

 <210> 1048
 <211> 23
 <212> DNA
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 <220>

<223> Synthetic
 <400> 1048
 gttgtaaaac taaaggggtg atc 23
 <210> 1049
 <211> 28
 <212> DNA
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 <223> Synthetic
 <400> 1049
 cggaagaagc agttggtgat ctcggcgg 28
 <210> 1050
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 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3
 dye.
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 caacgcttcc tccg 14
 <210> 1051
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Synthetic
<400> 1051
ccgtcacgcc tcccctttag ttttaciaa 28

<210> 1052
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1052
gaattggcac tcaaattgtgt tgtcagaga 29

<210> 1053
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1053
cagttactct gatattgctg atgaaattct ca 32

<210> 1054
<211> 23
<212> DNA
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<220>
<223> Synthetic
<400> 1054
gttgtaaaac taaaggggag gcg 23

<210> 1055
<211> 28
<212> DNA
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<220>
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<400> 1055
cggaagaagc agttggaggc gtgacggt

28

<210> 1056
<211> 14
<212> DNA
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<220>
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<220>
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<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1056
caacgcttcc tccg

14

<210> 1057
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1057

ccgtcacgcc tccccttttag ttttaciaa 28

<210> 1058

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1058

gaattggcac tcaaattgtgt tgtcagaga 29

<210> 1059

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1059

cagttactct gatattgctg atgaaattct ca 32

<210> 1060

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1060

gttgtaaaac taaaggggag gcg 23

<210> 1061

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1061
ccaggaagca gttggaggcg tgacggt

27

<210> 1062

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1062
caacgcttcg tgg

13

<210> 1063

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1063
ccgtcacgcc tcccgttagc taagat

26

<210> 1064

<211> 24

<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1064
cgagggtttc caaggagttg ttta

24

<210> 1065

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1065
ccctggatca gatttagaga gc

22

<210> 1066

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1066
atcttagcta acgggaggcg

20

<210> 1067

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
 <400> 1067
 cggaagaagc agttggaggc gtgacggt 28

 <210> 1068
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3 dye.

 <400> 1068
 caacgcttcc tccg 14

 <210> 1069
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1069
 ccgtcacgcc tcagttgttt ccggtt 25

 <210> 1070
 <211> 27
 <212> DNA
 <213> Artificial Sequence

| | |
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| <220> | |
| <223> Synthetic | |
| <400> 1070 | |
| agaggtacaa acgaggtttt ccaaggc | 27 |
| <210> 1071 | |
| <211> 29 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 1071 | |
| agctaagatc cctggatcag atttagaga | 29 |
| <210> 1072 | |
| <211> 19 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 1072 | |
| aacggaaaca actgaggcg | 19 |
| <210> 1073 | |
| <211> 27 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 1073 | |
| ccaggaagca agtggaggcg tgacggu | 27 |

<210> 1074
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z21 quenching group.

<400> 1074
 cactgcttcg tgg

13

<210> 1075
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 1075
 ccgtcacgcc tcccgttagc ta

22

<210> 1076
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 1076
 caaacgaggt tttccaagga gttga

25

<210> 1077
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1077
 agatccctgg atcagattta gagagctc

28

<210> 1078
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 1078
 tagctaacgg aaagaggcg

19

<210> 1079
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 1079
 ccaggaagca agtggaggcg tgacggu

27

<210> 1080
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z21 quenching group.

<400> 1080
cactgcttcg tgg 13

<210> 1081
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1081
ccgtcacgcc tcccgttag 19

<210> 1082
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1082
agagggtacaa acgagggtttt ccaaggaga 29

<210> 1083
<211> 28
<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1083

ctaagatccc tggatcagat ttagagag

28

<210> 1084

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1084

ctaacggaaa caagaggcg

19

<210> 1085

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1085

ccaggaagca agtggaggcg tgacggu

27

<210> 1086

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a Z21 quenching group.

<400> 1086
cactgcttcg tgg 13

<210> 1087
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1087
aacgaggcgc accttaccaa tgcctaagaa aagagtt 37

<210> 1088
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1088
tgcattatatt ttctgtcact ctctcttttc caatta 36

<210> 1089
<211> 30
<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic
 <400> 1089
 aactcttttc ttaggcattt tgaagggtgcg 30

 <210> 1090
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1090
 cggaggaagc agttgggtgcg cctcgttaa 29

 <210> 1091
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3 dye.

 <400> 1091
 caacgcttcc tccg 14

 <210> 1092
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Synthetic

<400> 1092

cagtcacgtc tctcttcaaa atgcctaaga aaagagt

37

<210> 1093

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1093

tctgcattat ttttctgtca ctctctcttt tccaata

37

<210> 1094

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1094

actcttttct taggcatttt gaagagagac g

31

<210> 1095

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1095

gctactgaga tgaaggagac gtgactgta

29

<210> 1096
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1096
cttctctcag tagc

14

<210> 1097
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1097
aacgaggcgc acccttttgc cagttcc

27

<210> 1098
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1098

gctctgcagg attttcatgt caccata

27

<210> 1099

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1099

gaggaactgg caaaaggggtg cg

22

<210> 1100

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1100

gctactgaga tgaaggagac gtgactgta

29

<210> 1101

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1101
cttctctcag tagc 14

<210> 1102

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1102
aacgaggcgc acccttttgc cagt 24

<210> 1103

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1103
gctctgcagg attttcatgt caccata 27

<210> 1104

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1104
tcctccagat atccaagaag agactc 26

<210> 1105

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1105

actggcaaaa ggcgggc

17

<210> 1106

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1106

cggaggaaaag cagttggtgc gcctcguuua

30

<210> 1107

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1107

cggaagaaaag cagttggtgc gcctcguuua

30

<210> 1108

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1108
 caacgcttcc tccg 14

<210> 1109
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 1109
 gccgcacgcc gccttttgcc agt 23

<210> 1110
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 1110
 gctctgcagg attttcatgt caccata 27

<210> 1111
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 1111
 tcctccagat atccaagaag agactc 26

 <210> 1112
 <211> 17
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1112
 actggcaaaa ggcgggc 17

 <210> 1113
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1113
 cggaggaagc agttgcggcg tgcggca 27

 <210> 1114
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1114
caacgcttcc tccg

14

<210> 1115

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1115
aacgaggcgc acccttttgc cagttc

26

<210> 1116

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1116
gctctgcagg attttcatgt caccata

27

<210> 1117

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1117

ctccagatat ccaagaagag actc 24

<210> 1118

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1118

gaactggcaa aaggggtgcg 19

<210> 1119

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1119

cggaggaagc agttggtgcg cctcgttaa 29

<210> 1120

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1120
caacgcttcc tccg 14

<210> 1121

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1121
ccgtcacgcc tccttgcaa aactgcacc 29

<210> 1122

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1122
ccgtcacgcc tccttgcaa aactgcacca 30

<210> 1123

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1123
ctttatgcac tgacatctaa gttcttttagc actca 35

<210> 1124

<211> 24

<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1124
tggtgcagtt ttgccaagga ggcg

24

<210> 1125

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1125
tggtgcagtt ttgccaagga ggcgtg

26

<210> 1126

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1126
cggaagaagc agttggaggc gtgacggc

28

<210> 1127

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
 <220>
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 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1127
 caacgcttcc tccg 14

<210> 1128
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 1128
 ccgtcacgcc tccatcttca ctgattcttg g 31

<210> 1129
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic

<400> 1129
 ccgtcacgcc tccatcttca ctgattcttg ga 32

<210> 1130
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 1130
 agtggtgaag tagatttgct tgaagtttca ctgga 35

 <210> 1131
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1131
 gataccacag agaatgaatt tt 22

 <210> 1132
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1132
 tccaagaatc agtgaagatg gaggcg 26

 <210> 1133
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1133
 tccaagaatc agtgaagatg gaggcgtg 28

<210> 1134
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1134
 gaatcagtga agatggaggc g 21

 <210> 1135
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1135
 cggaagaagc agttggaggc gtgacggc 28

 <210> 1136
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3
 dye.

 <400> 1136

caacgcttcc tccg 14

<210> 1137

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1137

ccgtcacgcc cttggctcaa ttttgct 27

<210> 1138

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1138

ccattcaatt cctgaaatta aagttcggat attctcttgg ca 42

<210> 1139

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1139

cctgaaatta aagttcggat attctcttgg ca 32

<210> 1140

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1140

cctgaaatta aagttcggat attctcttgg ca

32

<210> 1141

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1141

agcaaaattg agccaaggga ggcg

24

<210> 1142

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1142

agcaaaattg agccaaggga ggcgtg

26

<210> 1143

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1143
cggaagaagc agttggaggc gtgacggc

28

<210> 1144

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1144
caacgcttcc tccg

14

<210> 1145

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1145
ccgtcacgcc tccatcttca ctgattcttg

30

<210> 1146

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
 <400> 1146
 ttctagcaaa cccattcaat tcctgaaatt aaagttcgga tattcta 47
 <210> 1147
 <211> 37
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1147
 cccattcaat tcctgaaatt aaagttcgga tattcta 37
 <210> 1148
 <211> 37
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1148
 cccattcaat tcctgaaatt aaagttcgga tattcta 37
 <210> 1149
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1149
 ccaagggcca aggaggcgt 19
 <210> 1150

<211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1150
 cggaagaagc agttggaggc gtgacggc 28

 <210> 1151
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3
 dye.

 <400> 1151
 caacgcttcc tccg 14

 <210> 1152
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1152
 ccgtcacgcc tccatcttca ctgattc 27

<210> 1153
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1153
 agtggtgaag tagatttgct tgaagtttca ctgga 35

 <210> 1154
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1154
 ttggatacca cagagaatga att 23

 <210> 1155
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1155
 cggaagaagc agttggaggc gtgacggt 28

 <210> 1156
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1156
caacgcttcc tccg 14

<210> 1157
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
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24

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<211> 28

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<222> (4)..(4)

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14

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<211> 30

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<223> Synthetic
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14

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<223> Synthetic

<400> 1174
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<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1175
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<210> 1176

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<210> 1178
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<222> (4)..(4)

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<222> (4)..(4)

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 <210> 1203
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 <400> 1203
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<210> 1207
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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1207

cctcctttat attcccaagt ataacactct aa

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<210> 1208

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<222> (4)..(4)

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<400> 1208

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<210> 1224
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cuuuuccaau cuuuuuauca cauuc

25

<210> 1226
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25

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| <210> | 1228 | |
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| | ccgtcacgcc tcgccccaca | 20 |
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| <213> | Artificial Sequence | |
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25

<210> 1232
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20

<210> 1233
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<210> 1234
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| <400> | 1234 | |
| | ccgtcacgcc tcgccccact | 20 |
| <210> | 1235 | |
| <211> | 14 | |
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| <220> | | |
| <223> | Synthetic | |
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| | tgtggggcga ggcg | 14 |
| <210> | 1236 | |
| <211> | 28 | |
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| <213> | Artificial Sequence | |
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| <223> | Synthetic | |
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| | cagcacaggc tggtgaccat cataaaac | 28 |
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| <211> | 25 | |
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| <213> | Artificial Sequence | |
| <220> | | |
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19

<210> 1240
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19

<210> 1241
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18

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25

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<210> 1251
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28

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<212> DNA

<213> Artificial Sequence

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21

<210> 1254

<211> 31

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<400> 1254

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31

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 <210> 1258
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15

<210> 1260
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30

<210> 1261
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cccttgaaat tagacacggt gcg

23

<210> 1262
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29

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23

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<400> 1269
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<400> 1270
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<400> 1271
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16

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16

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<220>

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<222> (18)..(18)

<223> The modified nucleotide at this position is biotinylated thymidine.

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19

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<220>

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<210> 1723

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28

<210> 1724

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<400> 1724

cggaagaagc agttggaggc gtgacgga

28

<210> 1725

<211> 28

<212> DNA

<213> Artificial Sequence

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<400> 1725

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28

<210> 1726

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
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 cggaagaagc agttggaggc gtgacggt 28

 <210> 1729
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 cggaagaagc agttggaggc gtgacgga 28

 <210> 1730

<211> 12
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<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1730
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<210> 1731
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<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1731
caacgcttcc tcc 13

<210> 1732
<211> 14
<212> DNA

<213> Artificial Sequence

<220>

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<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1732
caacgcttcc tccg

14

<210> 1733

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1733
caacgcttcc tccguu

16

<210> 1734

<211> 18

<212> DNA

<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1734
caacgcttcc tccguuuu 18

<210> 1735
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1735
caacgcttcc tccg 14

<210> 1736
<211> 31
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<220>
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<220>
<221> misc_feature
<222> (30)..(30)
<223> The residue at this position is attached to a C18 linker.

<220>

<221> modified_base
<222> (31)..(31)
<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1736
cgaaattaat acgccttctt gggcatgtac c 31

<210> 1737
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
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<222> (30)..(30)
<223> The residue at this position is linked to a C18 linker.

<220>
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<222> (31)..(31)
<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1737
cgaaattaat acgccttctt gggcatgtac c 31

<210> 1738
<211> 23
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<220>

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<221> modified_base
<222> (23)..(23)
<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1738
ctgaagatgt ttcagttctg tgc 23

<210> 1739
<211> 22
<212> DNA
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<220>
<223> Synthetic
<400> 1739
gaagatgttt cagttctgtg gc 22

<210> 1740
<211> 27
<212> DNA
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<400> 1740
tcacttccta ccttcttggg catgtaa 27

<210> 1741
<211> 30
<212> DNA
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 <400> 1741
 tcacttccta ccttcttggg catgtaaaac 30

 <210> 1742
 <211> 28
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 <223> The residue at this position is attached to a C18 linker.

 <220>
 <221> modified_base
 <222> (28)..(28)
 <223> The modified nucleotide at this position is dideoxy cytosine.

 <400> 1742
 tcacttccta ccttcttggg catgtaac 28

 <210> 1743
 <211> 22
 <212> DNA
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 <223> Synthetic
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<221> modified_base
<222> (22)..(22)
<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1743
gaagatgttt cagttctgtg gc 22

<210> 1744
<211> 27
<212> DNA
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<220>
<223> Synthetic
<400> 1744
acttcctact taattccatt caaaatc 27

<210> 1745
<211> 28
<212> DNA
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<222> (27)..(27)
<223> The residue at this position is attached to a C18 linker.

<220>
<221> modified_base
<222> (28)..(28)
<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1745
acttcctact taattccatt caaaatcc

28

<210> 1746

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> modified_base

<222> (24)..(24)

<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1746
gagtttggga ttcttgtaat tatc

24

<210> 1747

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1747
cgtgttctgt ggcgtatctt aattccattc aaaatc

36

<210> 1748

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
 <400> 1748
 cgtgttctgt ggcgtatctt aattccattc aaaatc 36

 <210> 1749
 <211> 24
 <212> DNA
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 <222> (24)..(24)
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 <400> 1749
 gagtttggga ttcttgtaat tatc 24

 <210> 1750
 <211> 41
 <212> DNA
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 <223> Synthetic
 <400> 1750
 cgtgttctgt ggcgtatctt aattccattc aaaatcatct g 41

 <210> 1751
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 1751
 cgtgttctgt ggcgtatctt aattccattc aaaatcatct g 41

 <210> 1752
 <211> 39
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1752
 cgtgttctgt ggcgtatctt aattccattc aaaatcatc 39

 <210> 1753
 <211> 39
 <212> DNA
 <213> Artificial Sequence

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 <223> Synthetic
 <400> 1753
 cgtgttctgt ggcgtatctt aattccattc aaaatcatc 39

 <210> 1754
 <211> 24
 <212> DNA
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 <220>
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<222> (24) .. (24)

<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1754

gagtttggga ttcttgtaat tatc

24

<210> 1755

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 1755

ttcctactct tgatcttcat tgtgc

25

<210> 1756

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1756

ctcaggagga gcaatgatct t

21

<210> 1757

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1757

ctcaggagga gcaatgat

18

<210> 1758
<211> 29
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<223> The residue at this position is attached to a C18 linker.

<220>
<221> modified_base
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<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1758
tcacttccta ctctgggtca tcttctcgc

29

<210> 1759
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
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<221> misc_feature
<222> (28)..(28)
<223> The residue at this position is attached to a C18 linker.

<220>
<221> modified_base
<222> (28)..(28)
<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1759
tcacttccta ctctgggtca tcttctcgc

29

<210> 1760
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> modified_base
<222> (24)..(24)
<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1760
gtggtgaagg tctcaaacat gatc

24

<210> 1761
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
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<221> modified_base
<222> (26)..(26)

<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1761
gggtgttgaa ggtctcaaac atgac 26

<210> 1762

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1762
cgtgttctgt ggcgtatctg ggcatcttc tcg 33

<210> 1763

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1763
cgtgttctgt ggcgtatctg ggcatcttc tcg 33

<210> 1764

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> modified_base

<222> (26)..(26)

<223> The modified nucleotide at this position is dideoxy cytosine.

<400> 1764
gggtggtgaa ggtctcaaac atgata

26

<210> 1765

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1765
ttcatatcggt tggtagttga ggtcaatg

28

<210> 1766

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1766
ttcatatcggt tggtagttga ggtcaatg

28

<210> 1767

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1767
ggaatcatat tggaacatgt aaaccatc

28

<210> 1768
<211> 26
<212> DNA
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<220>
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<400> 1768
ttcatacggt tggctcctgg aagatg

26

<210> 1769
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 1769
ttcatacggt tggctcctgg aagatg

26

<210> 1770
<211> 23
<212> DNA
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<223> Synthetic
<400> 1770
cacttgattt tggagggatc tca

23

<210> 1771
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 1771
 ttcatacggg taggttagtga ggtcaatg 28

 <210> 1772
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1772
 agaatacatc tggaacatgt agaccatc 28

 <210> 1773
 <211> 19
 <212> DNA
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 <220>
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 <400> 1773
 tggcgtatca tgtagttga 19

 <210> 1774
 <211> 19
 <212> DNA
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 <220>
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 <400> 1774
 tggcgtatca tgtagttga 19

<210> 1775
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 1775
 ggagtcatac tggaacatgt agacc 25

 <210> 1776
 <211> 19
 <212> DNA
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 tggcgtatca tgtagttga 19

 <210> 1777
 <211> 23
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 agtcatactg gaacatgtag aca 23

 <210> 1778
 <211> 25
 <212> DNA
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 <400> 1778
 ggagtcatac tggaacatgt agaca 25

 <210> 1779
 <211> 21
 <212> DNA
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 <400> 1779
 tggcgatatct cttttctcat t 21

 <210> 1780
 <211> 21
 <212> DNA
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 <400> 1780
 tggcgatatct cttttctcat t 21

 <210> 1781
 <211> 26
 <212> DNA
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 <223> Synthetic
 <400> 1781
 acaatcagaa ttgccattgc acaaca 26

<210> 1782
<211> 21
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<220>

<223> Synthetic

<400> 1782
gaaggcagag gaccgtgagg c

21

<210> 1783
<211> 21
<212> DNA
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<220>

<223> Synthetic

<400> 1783
gaaggcagag gaccgtgagg c

21

<210> 1784
<211> 22
<212> DNA
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<223> Synthetic

<400> 1784
aagacatctg gtgttgtagt ga

22

<210> 1785
<211> 23
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<223> Synthetic

<400> 1785

tggcgatatct cccagagaa agc

23

<210> 1786

<211> 23

<212> DNA

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<223> Synthetic

<400> 1786

tggcgatatct cccagagaa agc

23

<210> 1787

<211> 25

<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 1787

cactgagccg atgaagcgat ggtaa

25

<210> 1788

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 1788

tggcgatatct agggctccaa gag

23

<210> 1789
<211> 23
<212> DNA
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<220>
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<400> 1789
tggcgtatct agggctccaa gag

23

<210> 1790
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 1790
gtgttcaggt tttggaggcg gataa

25

<210> 1791
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 1791
tggcgtatct agggctccaa g

21

<210> 1792
<211> 21
<212> DNA
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 <400> 1792
 tggcgtatct agggctccaa g 21
 <210> 1793
 <211> 25
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 <400> 1793
 gtgttcaggt tttggaggcg gataa 25
 <210> 1794
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 <223> The residue at this position is linked to a spacer bearing a Cy3
 dye.
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 <210> 1795
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 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1795
attctctcag ac

12

<210> 1796

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

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<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 1796
attctctcag act

13

<210> 1797

<211> 26

<212> DNA

<213> Artificial Sequence

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| <223> | Synthetic | |
| <400> | 1797 | |
| | cagtctgaga tgaatgatac gccagg | 26 |
| <210> | 1798 | |
| <211> | 16 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic | |
| <400> | 1798 | |
| | cttggagccc tagata | 16 |
| <210> | 1799 | |
| <211> | 15 | |
| <212> | DNA | |
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| <400> | 1799 | |
| | cttggagccc tagat | 15 |
| <210> | 1800 | |
| <211> | 14 | |
| <212> | DNA | |
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| <220> | | |
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| <400> | 1800 | |
| | cttggagccc taga | 14 |

<210> 1801
<211> 20
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<400> 1801
ctggcgatc tagggctcca

20

<210> 1802
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cctggcgat ctagggctcc a

21

<210> 1803
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gtgttcaggt tttggaggcg gataa

25

<210> 1804
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| | cagtctgaga tgaatgatac gccagg | 26 |
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| <211> | 15 | |
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| <223> | Synthetic | |
| <400> | 1805 | |
| | cttgagagccc tagat | 15 |
| <210> | 1806 | |
| <211> | 22 | |
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| <213> | Artificial Sequence | |
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| <400> | 1806 | |
| | ctctctcgtc tctagggctc ca | 22 |
| <210> | 1807 | |
| <211> | 22 | |
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| <213> | Artificial Sequence | |
| <220> | | |
| <223> | Synthetic | |
| <400> | 1807 | |
| | ctctctcgtc tctagggctc ca | 22 |

<210> 1808
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gtgttcaggt tttggaggcg gataa

25

<210> 1809
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cagtctgaga tgaatgagac gagagagt

28

<210> 1810
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cttggagccc tagag

15

<210> 1811
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| <223> | Synthetic | |
| <400> | 1811 | |
| | tggcgtatct agggctcca | 19 |
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| | | |
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| <400> | 1815 | |
| | tggcgtatct ccccagaga | 19 |
| | | |
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| <211> | 25 | |
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| <223> | Synthetic | |
| <400> | 1816 | |
| | cactgagccg atgaagcgat ggtaa | 25 |
| | | |
| <210> | 1817 | |
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| <212> | DNA | |
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| <223> | Synthetic | |
| <400> | 1817 | |
| | tggcgtatct atagggctc | 19 |
| | | |
| <210> | 1818 | |
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| <212> | DNA | |
| <213> | Artificial Sequence | |

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| <400> | 1818 | |
| | gtgtgttcag gttttggagg cggaa | 25 |
| <210> | 1819 | |
| <211> | 23 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
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| <223> | Synthetic | |
| <400> | 1819 | |
| | ctctctcgtc tcttcagggtt ttg | 23 |
| <210> | 1820 | |
| <211> | 23 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
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| <223> | Synthetic | |
| <400> | 1820 | |
| | ggcagctctc aggtcagggtg tga | 23 |
| <210> | 1821 | |
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caaaacctga agagacg 17

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16

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24

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20

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15

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| | cgaagctcct ctatcag | 17 |
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28

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25

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<400> 2152

cttgtcactc ggggttcgag aagatgaa

28

<210> 2153

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2153

gccgtcacgc ctctcatctg tttagggcc

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<210> 2154

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2154

ggccctaaac agatgagagg cgt

23

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| <210> | 2155 | |
| <211> | 25 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| | | |
| <220> | | |
| <223> | Synthetic | |
| <400> | 2155 | |
| | ggccctaaac agatgagagg cgtga | 25 |
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| <210> | 2156 | |
| <211> | 21 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| | | |
| <220> | | |
| <223> | Synthetic | |
| <400> | 2156 | |
| | caggtcctgg aaggagcact a | 21 |
| | | |
| <210> | 2157 | |
| <211> | 30 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |
| | | |
| <220> | | |
| <223> | Synthetic | |
| <400> | 2157 | |
| | gccgtcacgc ctctctcctc attgaatcct | 30 |
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| <210> | 2158 | |
| <211> | 26 | |
| <212> | DNA | |
| <213> | Artificial Sequence | |

<220>
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 <400> 2158
 aggattcaat gaggagagag gcgtga 26

<210> 2159
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 <212> DNA
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<220>
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 <400> 2159
 aggattcaat gaggagagag gcgt 24

<210> 2160
 <211> 29
 <212> DNA
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<220>
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 <400> 2160
 ccgtcacgcc tctctcctca ttgaatcct 29

<210> 2161
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 <212> DNA
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<220>
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 <400> 2161
 aggattcaat gaggagagag gcg 23

<210> 2162
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 2162
 gccgtcacgc ctctctcctc attgaatcc

29

<210> 2163
 <211> 25
 <212> DNA
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<220>
 <223> Synthetic
 <400> 2163
 ggattcaatg aggagagagg cgtga

25

<210> 2164
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2164
 ggattcaatg aggagagagg cgt

23

<210> 2165
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2165
 ccgtcacgcc tctctcctca ttgaatcc 28

 <210> 2166
 <211> 22
 <212> DNA
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 <220>
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 <400> 2166
 ggattcaatg aggagagagg cg 22

 <210> 2167
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2167
 ccgtcacgcc tctctcctca ttgaatc 27

 <210> 2168
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 <212> DNA
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 <220>
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 gattcaatga ggagagaggc g 21

<210> 2169
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
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<400> 2169
ccgccgagat cactctcctc attgaatc

28

<210> 2170
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 2170
gattcaatga ggagagtgat ctc

23

<210> 2171
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 2171
ccaaaagtcc agtgatgatt ttcaccaggc aaga

34

<210> 2172
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2172
 cggaggaagc agttggtgcg cctcgtaa 29

 <210> 2173
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3
 dye.

 <400> 2173
 caacgcttcc tccg 14

 <210> 2174
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2174
 ccaggaagca agtggtgcgc ctcgttt 27

 <210> 2175
 <211> 13
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (3)..(3)

<223> The residue at this position is linked to a Z21 quenching group.

<400> 2175

cactgcttcg tgg

13

<210> 2176

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2176

cggaagaagc agttggaggc gtgacggt

28

<210> 2177

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2177
caacgcttcc tccg 14

<210> 2178

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2178
cggaagaagc agttggaggc gtgacggc 28

<210> 2179

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2179
caacgcttcc tccg 14

<210> 2180

<211> 27

<212> DNA

<213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2180
 ccaggaagca agtggaggcg tgacggu 27

 <210> 2181
 <211> 13
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (3)..(3)
 <223> The residue at this position is linked to a Z21 quenching group.

 <400> 2181
 cactgcttcg tgg 13

 <210> 2182
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2182
 cggaggaagc agttggtgat ctcggcgg 28

 <210> 2183
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2183
caacgcttcc tccg 14

<210> 2184
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 2184
cggaagaagc agttggtgat ctcggcgg 28

<210> 2185
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2185
caacgcttcc tccg 14

<210> 2186

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2186
gttactgaga tgaaggagac gtgactgta 29

<210> 2187

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2187
cttctctcag tagc 14

<210> 2188

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
 <400> 2188
 ccgaggaagc gggtgcgtac gactgggtaa 30

 <210> 2189
 <211> 14
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> misc_feature
 <222> (4)..(4)
 <223> The residue at this position is linked to a spacer bearing a Cy3
 dye.

 <400> 2189
 caacgcttcc tccg 14

 <210> 2190
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2190
 cggaggaagc gggtggtgcg ggtgggttg 29

 <210> 2191
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2191
caacgcttcc tccg 14

<210> 2192
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2192
caacgcttcc tccg 14

<210> 2193
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> misc_feature
<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2193
attctctcag ac 12

<210> 2194
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature
<222> (4)..(4)
<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2194
taacgcttcc tccg 14

<210> 2195
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<220>
<221> misc_feature

<222> (3)..(3)

<223> The residue at this position is linked to a Dabcyl quencher.

<400> 2195
caatgcttcc tccg

14

<210> 2196

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (3)..(3)

<223> The residue at this position is linked to a Z21 quenching group.

<400> 2196
ctcttctcag tgcg

14

<210> 2197

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (3)..(3)

<223> The residue at this position is linked to a Z21 quenching group.

<400> 2197
cactgcttcg tgg 13

<210> 2198

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (3)..(3)

<223> The residue at this position is linked to a Z28 quenching group.

<400> 2198
cactgcttcg tgg 13

<210> 2199

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (4)..(4)

<223> The residue at this position is linked to a spacer bearing a Cy3 dye.

<400> 2199
cttctctcag ac 12

<210> 2200

<211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2200
 cggaggaagc agttggaggc gtgacggt 28

 <210> 2201
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2201
 cggaggaagc agttgtggcg gtgacggtt 29

 <210> 2202
 <211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2202
 cagtctgaga tgaatgagac gagagagt 28

 <210> 2203
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2203
 cggaggaagc ggtagtctg tcacgtcat 29

 <210> 2204
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2204
 cggaggaagc ggtagtctg ccacgtcat 29

 <210> 2205
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2205
 cggaagaagc agttggtgcg cctcgtaa 29

 <210> 2206
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2206
 cggaggaagc agttggtgcg cctcgtaa 29

<210> 2207

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2207

cgaggagaagc agttgcggcg tgcggct

27

<210> 2208

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2208

gcgcagtgag aatgaggagg cgtgacggu

29

<210> 2209

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2209

ccaggaagca agtggcgcg ctcguuu

27

<210> 2210

<211> 26

<212> DNA

<213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2210
 cagtctgaga tgaatgatac gccagg 26

 <210> 2211
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2211
 agtctgagat gaaggagacg tgactgtgg 29

 <210> 2212
 <211> 27
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2212
 cggaggaagc ggttggtgat ctcggcg 27

 <210> 2213
 <211> 29
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2213
 tctgtggcgt atccttcttg ggcattgaa 29

<210> 2214
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 2214
 gtggcgatc cttcttgggc atgtaa 26

 <210> 2215
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2215
 gcgtatcctt cttgggcatg taa 23

 <210> 2216
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> modified_base
 <222> (22)..(22)
 <223> The modified nucleotide at this position is a dideoxy cytosine.

 <400> 2216
 gaagatgttt cagttctgtg gc 22

<210> 2217
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> modified_base
 <222> (23)..(23)
 <223> The modified nucleotide at this position is biotinylated deoxyadenosine.

<400> 2217
 aaaagatacg ccacagaaca cgatt 25

<210> 2218
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2218
 tggcgtatct taattccatt caaaat 26

<210> 2219
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic

<400> 2219
tgggagtttg ggattcttgt aattaa 26

<210> 2220

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> modified_base

<222> (18)..(18)

<223> The modified nucleotide at this position is biotinylated deoxythymidine.

<400> 2220
aaaagatacg ccacagctc 19

<210> 2221

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2221
tggcgatatct aattattaat tccattc 27

<210> 2222

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic
 <400> 2222
 atcctggtga gtttgggatt cttga 25

 <210> 2223
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> modified_base
 <222> (18)..(18)
 <223> The modified nucleotide at this position is biotinylated deoxythymidine.

 <400> 2223
 aaaagatacg ccacagctc 19

 <210> 2224
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2224
 tggcgatatct tccattcaaa atcatc 26

 <210> 2225
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2225
 gtttgggatt cttgtaatta ttaaa 25

<210> 2226
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <220>
 <221> modified_base
 <222> (18)..(18)
 <223> The modified nucleotide at this position is biotinylated deoxythymidine.

<400> 2226
 aaaagatacg ccacagctc 19

<210> 2227
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2227
 gtggcgatatc cttcttgggc at 22

<210> 2228
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2228
 gaagatgttt cagttctgtg gc 22

<210> 2229
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <220>
 <221> modified_base
 <222> (18)..(18)
 <223> The modified nucleotide at this position is biotinylated deoxythymidine.

<400> 2229
 aaaagatacg ccacagctc 19

<210> 2230
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2230
 tggcgatatct ctgggtcatc ttc 23

<210> 2231
 <211> 25
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2231
gggtgttgaa ggtctcaaac atgaa

25

<210> 2232

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> modified_base

<222> (18)..(18)

<223> The modified nucleotide at this position is biotinylated deoxythymidine.

<400> 2232
aaaagatacg ccacagctc

19

<210> 2233

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2233
tggcgatatct cttgatcttc attgt

25

<210> 2234

<211> 25

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2234
 acttgcgctc aggaggagca atgaa 25

 <210> 2235
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> modified_base
 <222> (18)..(18)
 <223> The modified nucleotide at this position is biotinylated deoxythymidine.

 <400> 2235
 aaaagatacg ccacagctc 19

 <210> 2236
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2236
 tggcgtatct gatctgggtc atct 24

 <210> 2237

<211> 28
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2237
 tggctggggt gttgaaggtc tcaaacaa 28

 <210> 2238
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> modified_base
 <222> (18)..(18)
 <223> The modified nucleotide at this position is biotinylated deoxythymidine.

 <400> 2238
 aaaagatacg ccacagctc 19

 <210> 2239
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2239
 acccgatatct gcccggaag ga 22

<210> 2240
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 2240
agtttcgtgg atgccacagg agaccaa

27

<210> 2241
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 2241
agtttcgtgg atgctacagg agaccaa

27

<210> 2242
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic
<400> 2242
aaaagatacg ccacagctc

19

<210> 2243
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
 <223> Synthetic
 <400> 2243
 tggcgtatct ctcaaacatg atct 24

 <210> 2244
 <211> 26
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2244
 acgtacatgg ctgggggtggt gaagga 26

 <210> 2245
 <211> 19
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <220>
 <221> modified_base
 <222> (18)..(18)
 <223> The modified nucleotide at this position is biotinylated deoxythymidine.

 <400> 2245
 aaaagatacg ccacagctc 19

 <210> 2246
 <211> 23
 <212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2246
tggcgtatct gatctgggtc atc

23

<210> 2247

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2247
tggctggggt gttgaagggtc tcaaacaa

28

<210> 2248

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> modified_base

<222> (18)..(18)

<223> The modified nucleotide at this position is biotinylated deoxythymidine.

<400> 2248
aaaagatacg ccacagctc

19

<210> 2249

<211> 24

<212> DNA
<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2249
ccgtcacgcc tcgccttggg gttc

24

<210> 2250

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2250
tctgggtcat cttctcgcggttga

24

<210> 2251

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 2251
gaacccaag gcgagcggt

19

<210> 2252

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

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|-----------------------------------|----|
| <223> Synthetic | |
| <400> 2252 | |
| ccgtcaccgc catgggtcat cttct | 25 |
| <210> 2253 | |
| <211> 19 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 2253 | |
| cgcggttggc cttgggggtt | 19 |
| <210> 2254 | |
| <211> 30 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 2254 | |
| ctgggggtgtt gaaggtctca aacatgatcc | 30 |
| <210> 2255 | |
| <211> 19 | |
| <212> DNA | |
| <213> Artificial Sequence | |
| <220> | |
| <223> Synthetic | |
| <400> 2255 | |
| agaagatgac ccatggcgg | 19 |
| <210> 2256 | |

<211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2256
 ctctctcgtc tctcctggaa ga 22

 <210> 2257
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Synthetic
 <400> 2257
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